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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/678,880	10/03/2003	John Grunwald	26223-08A	1286	
7590 01/21/2005		EXAMINER			
John L. Cordani			MARCHESCHI, MICHAEL A		
Carmody & Tor		ART UNIT	PAPER NUMBER		
50 Leavenworth P.O. Box 1110	1	1755	TATEXNOMER		
Waterbury, CT	06721-1110	DATE MAILED: 01/21/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicat	tion No.	Applicant(s)	•		
	Office A-fice Comment	10/678,	10/678,880 GRUNWALD, JOH		1N		
	Office Action Summary	Examine	er	Art Unit			
			A Marcheschi	1755			
Period f	The MAILING DATE of this commun or Reply	ication appears on ti	he cover sheet with	the correspondence add	dress		
THE - External control	HORTENED STATUTORY PERIOD For MAILING DATE OF THIS COMMUNI MAILING DATE OF THIS COMMUNI MAILING THE MAILING BOATE OF THIS COMMUNI FOR SIX (6) MONTHS from the mailing date of this common the period for reply specified above is less than thirty (3) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no enunication. 0) days, a reply within the statutory period will apply and will, by statute, cause the apply.	event, however, may a reply atutory minimum of thirty (3 will expire SIX (6) MONTHS oplication to become ABANI	be timely filed  O) days will be considered timely  from the mailing date of this co  DONED (35 U.S.C. § 133).			
Status							
1)[	Responsive to communication(s) file	ed on					
2a) <u></u> ☐	This action is <b>FINAL</b> .	2b)⊠ This action is	non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practic	ce under <i>Ex parte</i> Q	uayle, 1935 C.D. 1	1, 453 O.G. 213.			
Disposit	tion of Claims						
4)⊠	Claim(s) 1-14 is/are pending in the a	pplication.					
	4a) Of the above claim(s) 1-8 is/are v	withdrawn from cons	sideration.				
5) 🗌	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>9-14</u> is/are rejected.						
7) 📙	Claim(s) is/are objected to.						
8) 🗌	Claim(s) are subject to restric	tion and/or election	requirement.				
Applicat	ion Papers						
9) 🗌	The specification is objected to by the	e Examiner.					
10)[	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any object	ction to the drawing(s)	be held in abeyance.	See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including			=	, ,		
11)	The oath or declaration is objected to	by the Examiner. N	lote the attached O	ffice Action or form PT	O-152.		
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim is All b) Some * c) None of:		•	9(a)-(d) or (f).			
	1. Certified copies of the priority			ination No.			
	<ul><li>2. Certified copies of the priority</li><li>3. Copies of the certified copies</li></ul>				Stane		
٠	application from the Internation			cived in this reactorial	Stage		
* (	See the attached detailed Office action	•	` ''	eived.			
			,	•			
Attachmen	nt(s)						
	ce of References Cited (PTO-892)		4) X Interview Sum				
	ce of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or I			ail Date nal Patent Application (PTO	L152\		
	mation Disclosure Statement(s) (PTO-1449 or I er No(s)/Mail Date <u>10/3/03</u> .	r 1 U/36/U8)	6) Other:	narr atent Application (PTO	-132)		
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Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-8, drawn to a CMP composition, classified in class 106, subclass 3.

II. Claims 9-14, drawn to a CMP method, classified in class 451, subclass 36.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in a materially different process of using that product, such as one that does **not** involve an interrupting step.

Because these inventions are distinct for the reasons given above and (1) have acquired a separate status in the art as shown by their different classification and (2) have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

During a telephone conversation with John L. Cordani on 1/3/05 a provisional election was made with traverse to prosecute the invention of Group II, claims 9-14. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-8 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-14 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over either (1) Tsai et al., (2) Doerre et al. or (3) Miyaji et al.

Tsai et al. teach in claims 1 and 6, a CMP process for semiconducting layers which involves interrupting the polishing process at least once (i.e. intermittently).

Doerre et al. teach in the abstract and column 3, lines 65-68, a CMP process for conducting layers which involves interrupting the polishing process periodically (i.e. at least once-intermittently).

Miyaji et al. teach in the abstract and column 2, line 65-column 3, line 3, that in a CMP process for semiconducting layers, it is known to interrupt the polishing process periodically (i.e. at least once-intermittently).

The claimed invention is anticipated by the references because the references teach methods which involves the same step as the claimed method (i.e. interrupting the polishing

process). Although the references do not teach the last limitation of the instant claim 9 (thereby enabling improved...structure), this is a functional limitation and it is the examiners position that since the same step is defined by the references, the claimed functional limitation is inherent (102) or expected (103) because the same process inherently or is expected to provide the same results absent any evidence to the contrary. In other words, if interrupting the process enables this improvement, as claimed, and the references interrupt the process, the claimed improvement is expected because this is a function of interrupting the process, and interrupting a CMP process is known, as shown by the reference. The reason for interrupting is immaterial as long as the final results will be accomplished and it is the examiners position that said results will be accomplished by the references stating of interrupting the process <u>absent clear and convincing</u> evidence to the contrary.

In view of the teachings as set forth above, it is the examiners position that the references reasonably teach or suggest the limitations of the rejected claims.

"A reference is good not only for what it teaches but also for what one of ordinary skill might reasonably infer from the teachings. In re Opprecht 12 USPQ 2d 1235, 1236 (CAFC 1989); In re Bode USPQ 12; In re Lamberti 192 USPQ 278; In re Bozek 163 USPQ 545, 549 (CCPA 1969); In re Van Mater 144 USPQ 421; In re Jacoby 135 USPQ 317; In re LeGrice 133 USPQ 365; In re Preda 159 USPQ 342 (CCPA 1968)". In addition, "A reference can be used for all it realistically teaches and is not limited to the disclosure in its preferred embodiments" See In re Van Marter, 144 USPQ 421.

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Evidence of unexpected results must be clear and convincing. *In re Lohr* 137 USPQ 548. Evidence of unexpected results must be commensurate in scope with the subject matter claimed. *In re Linder* 173 USPQ 356.

The references cited on the 1449 have been reviewed by the examiner and are considered to be art of interest since they are cumulative to or less than the art relied upon in the above rejections.

Any foreign language documents submitted by applicant has been considered to the extent of the short explanation of significance, English abstract or English equivalent, if appropriate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A Marcheschi whose telephone number is (571) 272-1374. The examiner can normally be reached on M-F (8:00-5:30) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L Bell can be reached on (571) 272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1/10/04 MM Michael A Marcheschi Primary Examiner Art Unit 1755